GENERAL NOTES

Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be $\frac{3}{16}$". Seal space with silicone sealant suitable for structural steel.

$1\frac{3}{4}$" at 50°F at rt. L's ($2\frac{1}{2}$" Joint seal)
$2\frac{3}{4}$"at 50°F at rt. L's (4" Joint seal)

$3\frac{1}{4}$" ($2\frac{1}{2}$" Joint seal)
$5\frac{1}{4}$" (4" Joint seal)

Preformed Jt. Seal

PL $\frac{3}{4}$" x 7"
Fabricate to crown

$\frac{7}{16}$" ϕ holes at 1'-0" cts. for $\frac{3}{8}$" ϕ bolts. All bolts shall be burned, sawed or chipped off flush with the plates after forms are removed.

$\frac{1}{2}$" x $\frac{1}{2}$" bars*
$\frac{3}{16}$ $1\frac{1}{2}$" at 6" cts.

$\frac{3}{4}$" ϕ x 8" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts. (2,925*** Required)

*Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

SECTION THRU EXPANSION JOINT
($2\frac{1}{2}$" and 4" joint seals)

***Number provided is a total for this sheet only and is provided for estimating purposes only. Contractor shall verify based on field verification of joint lengths.
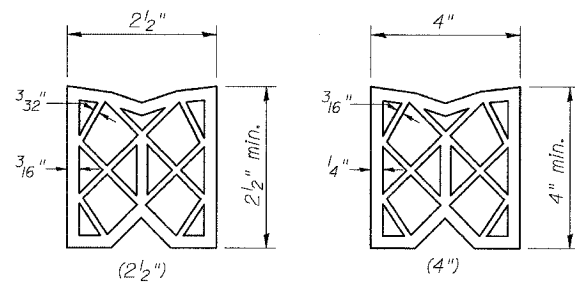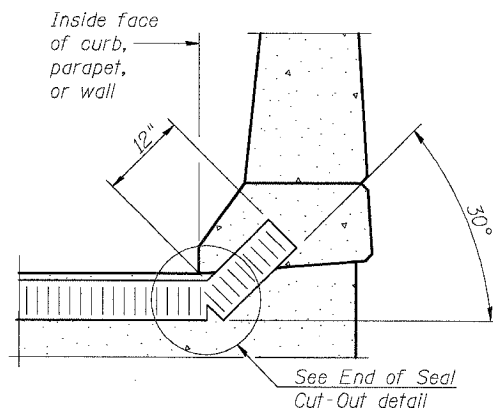
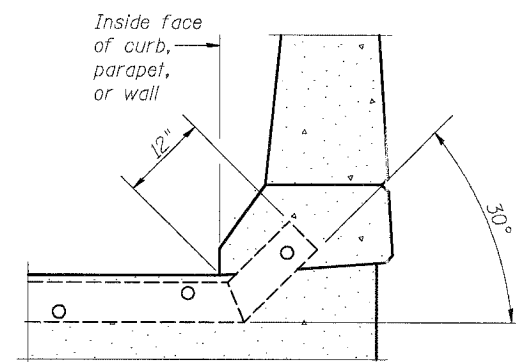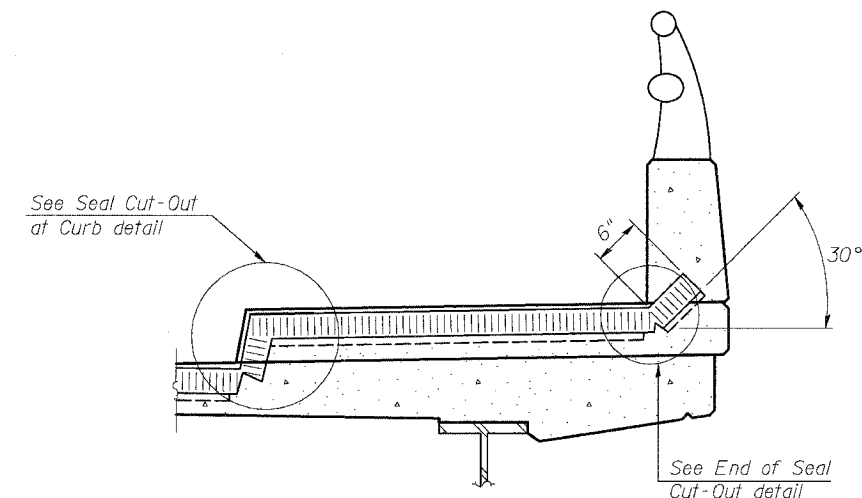|	Bridge Joint System (Expansion)	
Design Movement	Required Preformed Joint Seal Size	Required Strip Seal Rated movement
1"	$2\frac{1}{2}$"	1"
$1\frac{5}{8}$"	4"	2"

Bridge Deck | Sidewalk or Median

Plates

PLAN AT SIDEWALK OR MEDIAN

$2\frac{1}{2}$"
4"

$\frac{3}{32}$"
$\frac{3}{16}$"
$\frac{3}{16}$"
$\frac{1}{4}$"
$2\frac{1}{2}$" min.
4" min.

($2\frac{1}{2}$")
(4")

PREFORMED JOINT SEAL

Inside face of curb, parapet, or wall
12"
30°
See End of Seal Cut-Out detail

AT CURB, PARAPET, OR WALL
(Showing seal)

Inside face of curb, parapet, or wall
12"
30°

AT CURB, PARAPET, OR WALL
(Showing plate)

TYPICAL END TREATMENTS

See Seal Cut-Out at Curb detail
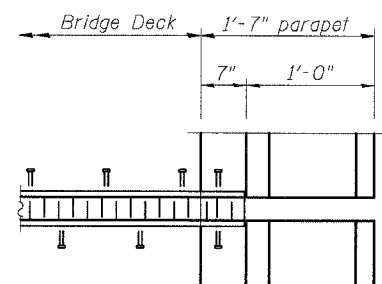6"
30°
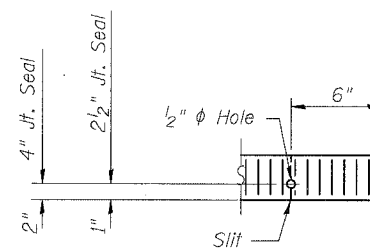See End of Seal Cut-Out detail

AT SIDEWALK OR MEDIAN**
(Showing plate and seal)

** Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.
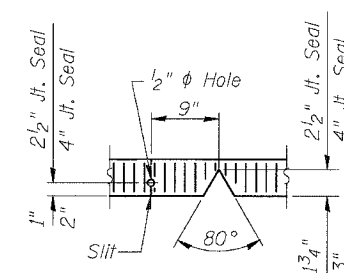
Bridge Deck | 1'-7" parapet
7" | 1'-0"

PLAN AT PARAPET

4" Jt. Seal
$2\frac{1}{2}$" Jt. Seal
$\frac{1}{2}$" ϕ Hole
6"
2"
1"
Slit

END OF SEAL CUT-OUT

$2\frac{1}{2}$" Jt. Seal
4" Jt. Seal
$\frac{1}{2}$" ϕ Hole
9"
$2\frac{1}{2}$" Jt. Seal
4" Jt. Seal
1"
2"
80°
$1\frac{3}{4}$"
3"
Slit

SEAL CUT-OUT AT CURB

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

EJ-BJS   9-01-03

(Sheet 1 of 2)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
BRIDGE JOINT SYSTEM - EXPANSION
(PREFORMED JOINT SEAL)

SCALE: NTS   DRAWN BY: BDC
DATE: 5/25/2006   CHECKED BY: BLU